



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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EVERLIGHT ELECTRONICS CO.,LTD.

# DATA SHEET

PART NO. : 383-2UYC/S530-A3

DATE : 2003/12/25

DEPARTMENT : CHR&D1

REVISION : 4

<b>RECEIVED</b>			
<input checked="" type="checkbox"/> MASS PRODUCTION			
<input type="checkbox"/> PRELIMINARY			
<input type="checkbox"/> CUSTOMER DESIGN			
DEVICE NUMBER :		CDLE-038-037	
PAGE :		6	
CUSTOMER	DESIGNER	CHECKER	APPROVER

4	Revision Update	2003/12/25
REV.	DESCRIPTION	RELEASE DATE

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# Technical Data Sheet

## 5.0mm Round Type LED Lamps

### 383-2UYC/S530-A3

#### ■ Features :

- Choice of various viewing angles
- Available on tape and reel.
- Reliable and robust

#### ■ Descriptions :

- The series is specially designed for applications requiring higher brightness
- The led lamps are available with different colors, intensities,



#### ■ Applications :

- TV set
- Monitor
- Telephone
- Computer

PART NO.	Material	Emitted Color	Lens Color
383-2UYC/S530-A3	AlGaInP	Super Yellow	Water Clear

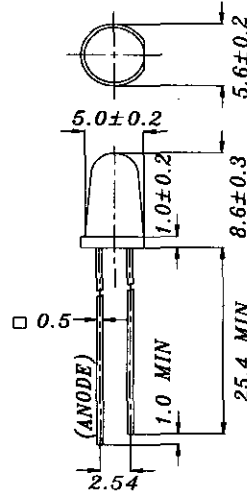


# Technical Data Sheet

## 5.0mm Round Type LED Lamps

### 383-2UYC/S530-A3

#### Package Dimensions



**Notes:** 1. All dimensions are in millimetres

- 2. An epoxy meniscus may extend about 1.5mm(0.059") down to the lead.
- 3. Tolerances unless Dimension  $\pm 0.25$ mm.

#### Absolute Maximum Ratings at $T_a = 25^\circ\text{C}$

Parameter	Symbol	Rating	Unit
Forward Current	$I_F$	25	mA
Operating Temperature	$T_{opr}$	-40 to +85	$^\circ\text{C}$
Storage Temperature	$T_{stg}$	-40 to +100	$^\circ\text{C}$
Electrostatic Discharge	ESD	2000	V
Soldering Temperature	$T_{sol}$	$260 \pm 5$	$^\circ\text{C}$
Power Dissipation	$P_d$	60	mW
Peak Forward Current	$I_F(\text{Peak})$	160	mA
Reverse Voltage	$V_R$	5	V

Note: \*1:  $I_F$  Conditions --Pulse Width  $\leq 1\text{msec}$  and Duty  $\leq 1/10$ .

\*2: Soldering time  $\leq 5$  seconds.



Technical Data Sheet  
5.0mm Round Type LED Lamps

**383-2UYC/S530-A3**

**Electro-Optical Characteristics (Ta=25°C)**

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Forward Voltage	V <sub>F</sub>	I <sub>F</sub> = 20 mA	/	2.0	2.4	V
Reverse Current	I <sub>R</sub>	V <sub>R</sub> = 5 V	/	/	10	μA
Luminous Intensity	I <sub>v</sub>	I <sub>F</sub> = 20 mA	2713	4263	/	mcd
Viewing Angle	2θ 1/2	I <sub>F</sub> = 20 mA	/	6	/	deg
Peak Wavelength	λ <sub>p</sub>	I <sub>F</sub> = 20 mA	/	591	/	nm
Dominant Wavelength	λ <sub>d</sub>	I <sub>F</sub> = 20 mA	/	589	/	nm
Spectrum Radiation Bandwidth	Δλ	I <sub>F</sub> = 20 mA	/	15	/	nm



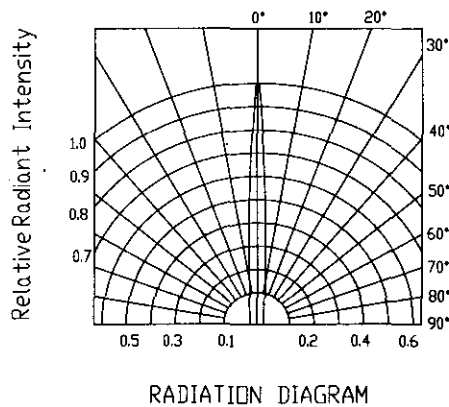
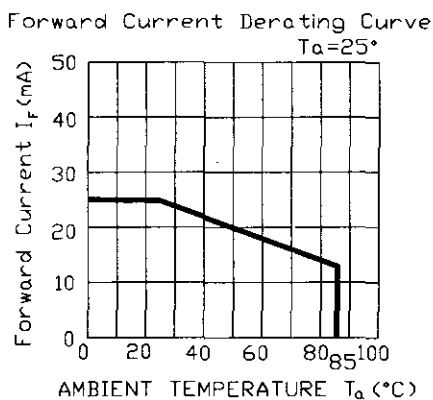
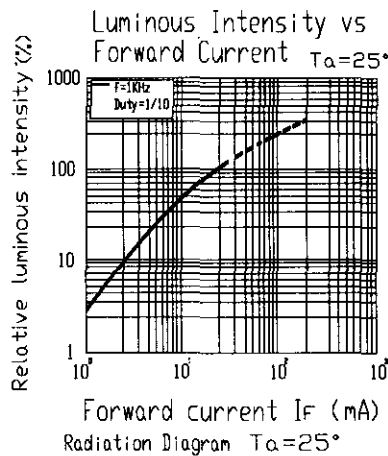
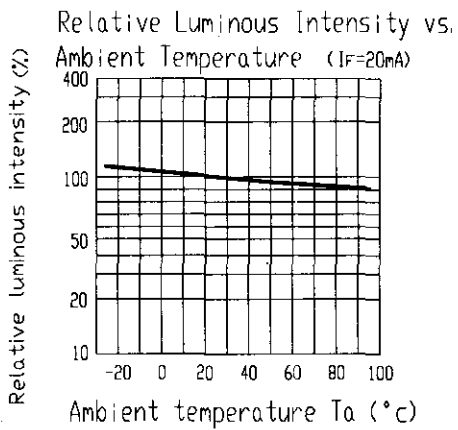
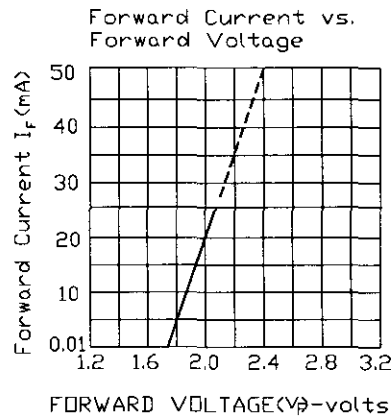
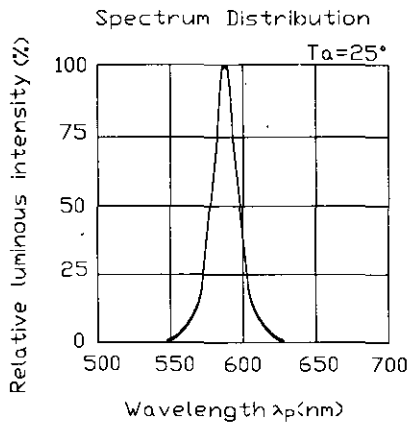
# Technical Data Sheet

## 5.0mm Round Type LED Lamps

### 383-2UYC/S530-A3

#### Typical Electro-Optical Characteristic Curves:

(UY)





Technical Data Sheet  
5.0mm Round Type LED Lamps

**383-2UYC/S530-A3**

■ Reliability test items and conditions:

NO	Item	Test Conditions	Test Hours/Cycle	Sample size	Ac/Re
1	Solder Heat	TEMP : 260°C ± 5 °C	10 SEC	76 PCS	0/1
2	Temperature Cycle	H : +100°C 15min § 5 min L : -40°C 15min	300 CYCLES	76 PCS	0/1
3	Thermal Shock	H : +100°C 5min § 10 sec L : -10°C 5min	300 CYCLES	76 PCS	0/1
4	High Temperature Storage	TEMP : 100°C	1000 HRS	76 PCS	0/1
5	Low Temperature Storage	TEMP : -40°C	1000 HRS	76 PCS	0/1
6	DC Operating Life	TEMP : 25°C IF = 20mA	1000 HRS	76 PCS	0/1
7	High Temperature / High Humidity	85°C / 85% RH	1000 HRS	76 PCS	0/1



# Technical Data Sheet

## 5.0mm Round Type LED Lamps

### 383-2UYC/S530-A3

#### Packing Quantity Specification

1.500PCS/1Bag , 4Bags/1Box  
2.10Boxes/1Carton

#### Label Form Specification



CPN: Customer's Production Number  
P/N: Production Number  
QTY: Packing Quantity  
CAT: Ranks  
HUE: Peak Wavelength  
REF: Reference  
LOT No: Lot Number  
MADE IN TAIWAN: Production Place

MADE IN TAIWAN

#### Notes

- Above specification may be changed without notice. EVERLIGHT will reserve authority on material change for above specification.
- When using this product, please observe the absolute maximum ratings and the instructions for using outlined in these specification sheets. EVERLIGHT assumes no responsibility for any damage resulting from use of the product which does not comply with the absolute maximum ratings and the instructions included in these specification sheets.
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